

WHOLESALE MOTORS, INC.



- ESTABLISHED 1961
- JN AUTOMOTIVE GROUP:
CHEVROLET, MAZDA, MASERATI,
LOTUS, LAMBORGHINI, AUDI, FERRARI
- CYCLE CITY, LTD:
HARLEY-DAVIDSON, KAWASAKI,
HONDA, YAMAHA, VESPA, MuZ

WHY DID WE CONSIDER DISTRIBUTED ENERGY?



- INCREASING COST OF ELECTRICITY
FROM THE UTILITY - HIGHEST IN THE
NATION
- UTILIZING HAWAII'S NATURAL
RESOURCE AND REDUCING DEMAND
FOR FOSSIL FUELS
- BEING AN EXAMPLE FOR HAWAII,
OTHER BUSINESSES, AND THE
MANUFACTURERS WE REPRESENT

OAHU AUTOMOTIVE DEALERSHIP

- AUTOMOTIVE RETAIL, OFFICE AND WAREHOUSE SPACE
- PV- 50kW POWERGUARD SYSTEM USING BP SOLAREX PANELS AND A 75kW TRACE INVERTER
- SAVING 10,000 BARRELS OF OIL OVER THE LIFE OF THE SYSTEM

OAHU PROJECT STEPS

- RESEARCH ON PV TECHNOLOGY
- ENERGY AUDIT TO DETERMINE SIZING OF SYSTEM
- SOLICITATION FROM VENDORS
- REVIEW FINANCING OPTIONS
- INSTALLATION OF SYSTEM – PANELS, INVERTER, SINGLE METERING
- INTERCONNECTION



New Master Meter Pad – JN Automotive - Honolulu



Night Installation of Master Meter Electrical

OAHU PROJECT FINANCIALS

- PROJECT COST- \$352,012.00
- 35% STATE TAX CREDIT,
10% FED TAX CREDIT, 4% G.E.T. CREDIT
- 5 YEAR MACRS ACCELERATED
DEPRECIATION
- UPVG- FEDERAL FUNDING
- CONVENTIONAL LOAN VS. LEASING

MAUI PROJECT



MAUI HARLEY-DAVIDSON KAWASAKI VESPA AUDI

- PV- 30kW ROOFTOP SYSTEM
 - LARGEST SYSTEM ON MAUI
 - SAVING OVER 3,000 BARRELS OF OIL OVER ITS 30 YEAR LIFE
 - OFFSETS DAYTIME ENERGY DEMAND
 - ROOFTOP DESIGN WITH NO PENETRATIONS MADE
 - HIGHLY VISIBLE FROM AIR AND ROAD TRAVEL







MAUI ICE CHILLER SYSTEM

- PRIMARY OPERATION DURING OFF-PEAK HOURS
- “J” RATE PLUS RIDER “T” EFFECT
- 50% STATE TAX CREDITS,
4% GET CREDIT
- MECO REBATES



MECO ENERGY SOLUTIONS- MAUI LIGHTING



- T8 FIXTURES AND ELECTRONIC BALLASTS
- OCCUPANCY SENSORS
- HIGH PRESSURE SODIUM AND METAL HALIDE LAMPS
- (6) LUMINAIRE SKYLIGHTS

MAUI PROJECT STEPS



- TEAM PARTICIPATION IN DESIGN AND IMPLEMENTATION OF ENERGY EFFICIENCIES
 - CONTRACTOR, STRUCTURAL ENGINEER, ELECTRICAL ENGINEER, ELECTRICIAN, INSTALLER
 - INTERCONNECTION
 - FILING FOR MECO REBATES

MAUI FINANCIALS



- PV- \$253,288.90
 - 35% STATE, 10% FED, 4% GET TAX CREDITS, 5-YR MACRS DEPRECIATION
- ICE CHILLER- \$443,724.57
 - 50% STATE, 4% GET TAX CREDITS, 5-YR MACRS DEPRECIATION

CONCLUSION



- THINK LONG TERM
 - ESCALATING COST OF ELECTRICITY
 - ENVIRONMENT
- NET-METERING
- STATE, FEDERAL, AND UTILITY SUPPORT IS INSTRUMENTAL